

5 WHAT IS CLAIMED:

1. A replendam, comprising:
a first reticulated wall having a perimeter;
a second reticulated wall disposed about at least a
10 portion of the perimeter of the first reticulated wall,
the second reticulated wall having a plurality of vanes
supported thereon, the second reticulated wall extending
to an outer frame; and,
an air dam disposed in spaced apart relation to the
15 first reticulated wall.
2. The replendam of Claim 1, wherein the air dam is
attached to the first reticulated wall and to the second
reticulated wall.
- 20 3. The replendam of Claim 2, wherein the air dam is
attached to the first and second reticulated walls by a
spring having a first leg attached to the first
reticulated wall and having a second leg attached to the
25 second reticulated wall.
4. The replendam of Claim 1, wherein the first
reticulated wall is round.
- 30 5. The replendam of Claim 4, wherein the plurality of
vanes extend from the perimeter of the first reticulated
wall.
6. The replendam of Claim 1, wherein the outer frame
35 has a groove disposed on a first side.

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7. The replendam of Claim 6, wherein the groove is V-shaped.

8. The replendam of Claim 1, wherein the outer frame
10 has a sealing edge disposed on the side opposite from the air dam.

9. A replendam, comprising:

a first reticulated wall having a perimeter;

15 a second reticulated wall disposed about at least a portion of the perimeter of the first reticulated wall, the second reticulated wall having a plurality of vanes supported thereon, the plurality of vanes extending from the perimeter of the first reticulated wall, the second
20 reticulated wall extending to an outer frame, the outer frame having a sealing edge disposed thereon; and,

an air dam disposed in spaced apart relation to the first reticulated wall and connected to the first and second reticulated walls.

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10. The replendam of Claim 9, wherein the first reticulated wall is round.

11. The replendam of Claim 9, wherein the air dam is
30 connected to the first and second reticulated walls by a spring having a first leg attached to the first reticulated wall and having a second leg attached to the second reticulated wall.

35 12. The replendam of Claim 9, wherein the outer frame

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5 has a groove disposed on a first side.

13. A filter cartridge assembly, comprising:

a cover having a recessed portion with an opening
at a first end covered by a reticulated wall, the
10 recessed portion capable of receiving filter media, the
cover having a planar wall disposed adjacent to the
recessed portion and a rim;

filter media disposed inside the recessed portion
of the cover;

15 a cartridge body having side walls and a bottom
wall with an opening defined therein;

a sorbent media bed disposed inside the cartridge
body; and,

a replendam having a first reticulated wall having
20 a perimeter, a second reticulated wall disposed about at
least a portion of the perimeter of the first
reticulated wall, the second reticulated wall having a
plurality of vanes supported thereon, the second
reticulated wall extending to an outer frame, and, an
25 air dam disposed in spaced apart relation to the first
reticulated wall, the replendam disposed between the
cover and the cartridge body such that the air dam
engages with the filter media, the bottom of the
replendam engages with the sorbent media bed, and the
30 replendam defines a plenum chamber between the filter
media and the sorbent media bed.

14. The filter cartridge assembly of Claim 13, wherein
the air dam is connected to the first reticulated wall
35 and to the second reticulated wall.

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15. The filter cartridge assembly of Claim 14, wherein the air dam is connected by a spring having a first leg attached to the first reticulated wall and having a second leg attached to the second reticulated wall.

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16. The filter cartridge assembly of Claim 13, wherein the first reticulated wall is round.

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17. The filter cartridge assembly of Claim 16, wherein the plurality of vanes extend radially from the perimeter of the first reticulated wall.

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18. The filter cartridge assembly of Claim 13, wherein the outer frame has a groove disposed on a first side.

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19. The filter cartridge assembly of Claim 18, wherein the groove is V-shaped.

20. The filter cartridge assembly of Claim 19, wherein the cover has a rib that engages with the groove on the outer frame of the replendam.

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21. The filter cartridge assembly of Claim 1, wherein the outer frame has a sealing edge.

22. A single stage filter assembly, comprising:
a cover having a planar wall disposed adjacent to an outer rim;

a retaining member including a reticulated wall
bordered by an outer frame, the retaining member having

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5 a plurality of springs disposed thereon;
a cartridge body having side walls and a bottom
wall with an opening defined therein; and,
a sorbent media bed disposed inside the cartridge
body.

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23. The filter assembly of Claim 22, wherein the
springs are integrally formed in the retaining member.

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24. The filter assembly of Claim 22, wherein the cover
has an opening sized such that it can be covered by a
hand of a user.

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25. The filter assembly of Claim 22, wherein the
retaining member further comprises a plurality of vane-
like members for directing the air flow.

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